

§Appl. No. 09/914,831  
Amdt. dated November 5, 2003

**Listing of Claims:**

**Claim 1 (Currently Amended)** An isolated mammalian polypeptide having the enzyme activity of a histidine protein phosphatase which specifically dephosphorylates phosphohistidine and has a molecular weight of 13,000-15,000 Da as determined by SDS electrophoresis, and which is isolated by a method comprising at least one step of anion exchange chromatography, gel filtration, and Blue sepharose affinity chromatography.

**Claim 2 (Previously Presented)** An isolated polypeptide according to claim 1 comprising at least the amino acid sequence motif  
DCECLGGGRISHQSQD (SEQ ID NO:3)

**Claim 3 (Previously Presented)** An isolated polypeptide according to claim 1 comprising at least the amino acid sequence motif  
DCECLGGGRISHQSQDX<sup>1</sup>KIHVYGYSMX<sup>2</sup>YGX<sup>3</sup>AQH (SEQ ID NO:4)  
wherein X<sup>1</sup> = K or R, X<sup>2</sup> = A or G and X<sup>3</sup> = P or R.

**Claim 4 (Previously Presented)** An isolated polypeptide according to claim 1 comprising at least the amino acid sequence motif  
YHADIYDKVSGDMQKQGCDCECLGGGRISHQSQDKKIHVYGYSM (SEQ ID NO:5).

**Claim 5 (Previously Presented)** An isolated mammalian polypeptide having the enzyme activity of a histidine protein phosphatase which specifically dephosphorylates phosphohistidine and has a molecular weight of 13,000-15,000 Da as determined by SDS electrophoresis, comprising the following amino acid sequence:  
(M) AVADLALIPDVDIDSDGVFKYVLIRVHSAPRSGAPAAESKEIVRGYKWA EYH

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ADIYDKVSGDMQKQGCDCECLGGGRISHQSQDKKIHVYGYSMAYGPAQHAISTEK  
IKAKYPDYEVTWANDGY (SEQ ID NO:2).

**Claim 6** (Cancel)

**Claim 7** (Cancel)

**Claim 8** (Cancel)

**Claim 9** (Previously Presented) A method of claim 19, where said cDNA comprises the nucleotide sequence:

(ATG) GCGGTGGCGGACCTCGCTCTCATTCCTGATGTGGACATCGACTCCGACGG  
CGTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCCGCTCCGGGGCTCCG  
GCTGCAGAGAGCAAGGAGATCGTGCGCGGCTACAAGTGGGCTGAGTACCATGCGG  
ACATCTACGACAAAGTGTGCGGCGACATGCAGAAGCAAGGCTGCGACTGTGAGTG  
TCTGGGCGGCGGGCGCATCTCCCACCAGAGTCAGGACAAGAAGATTCACGTGTAC  
GGCTATTCCATGGCCTATGGTCCTGCCCAGCACGCCATTTCAACTGAGAAAATCA  
AAGCCAAGTACCCCGACTACGAGGTCACCTGGGCTAACGACGGCTAC (SEQ ID  
NO:1).

**Claim 10** (Currently Amended) Pharmaceutical preparation comprising a polypeptide according to claim 1, ~~where appropriate, optionally~~ together with suitable excipients, carriers and other active ingredients.

**Claim 11** (Previously Presented) An antibody directed to a polypeptide according to claim 1.

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**Claim 12 (Cancel)**

**Claim 13 (Cancel)**

**Claim 14 (Cancel)**

**Claim 15 (Cancel)**

**Claim 16 (Cancel)**

**Claim 17 (Cancel)**

**Claim 18 (Cancel)**

**Claim 19 (Currently Amended)** A method of producing a recombinant human histidine protein phosphatase, comprising:

expressing a cDNA coding for a human histidine protein phosphatase having the amino acid sequence of SEQ ID NO 2 in a cell to produce recombinant human histidine protein phosphatase, and

isolating said recombinant human histidine protein phosphatase.

**Claim 20 (Cancel)**

**Claim 21 (Cancel)**

**Claim 22 (Cancel)**